Intelligent ripple control receiver LCR 600

All-purpose with 1 – 6 exchangeable relays, multifunctional

The LCR600 is a high-quality ripple control receiver including switch clock. It can be used in standard ripple control applications as well as in modern systems with "distributed intelligence" (VERSACOM) as a remotely programmable switch clock.

Digital filtering of the ripple control signal is done by a microcontroller in most modern technology using an algorithm developed by Elster.



- Processing of all common ripple control protocols and their specific pulse patterns
- Internal clock with optional buffering by a super cap or a battery, flexible synchronisation using VERSACOM Protocol
- Switch clock depending on weekdays, with remote parameterisation using the 'VER-SACOM' protocol (DIN 43861-301)
- Switch clock for a year with calculated dawn and dusk times for street light control
- Programming and test via the electrical interface (USB) is possible without the 230VAC power supply
- Optical interface according to IEC 62056-21 (option)
- Signal absence sensing, detection of transmitter failures
- The receiver is designed to accommodate up to 6 change over relays 25A pluggable or alternatively up to 4 relays normally open 40A pluggable. Also combinations of both relay types are possible.

- Anti Tampering and supervision
 - Automatic refreshing of relay positions every 60 seconds
 - Counter for number of switching actions per relay
 - Log file for storage of pulse pattern and signal levels of last telegrams received (minimum 10 telegrams)
 - Log file for storage of events (power failure, low network frequency, signal absence)
- · Cyclic switching function
- Switching delay (1 s 24 h)
- Passing contact function (1 s 24 h)
- Logical interconnection of relays
- User friendly programming tool LCRset6

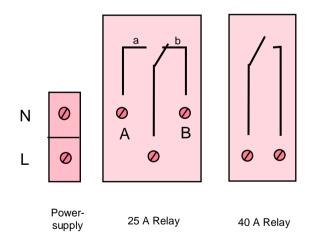




Technical Data subject to alterations

| Frequency of power supply | |
|---|---|
| Frequency of power supply Lightning impulse strength | 50Hz +2%2% |
| | 8kV 1,2/50 according to DIN EN 61 000-4-5 |
| Audio frequency | 158Hz – 1600Hz |
| Selection of audio frequency | any frequency can be set |
| Minimum respond signal voltage None respond signal voltage | Uf > 0.5% Un |
| | Unf < 0.3% Un or according to agreement |
| Maximum signal level | 8-15 times Uf (dependent on frequency) |
| Supercap | > 48 h without power |
| Battery | 3 years withour power at 25° Celsius10 years with power |
| Time deviation | < 2 s/day |
| Output data Number of Relays Nominal switching voltage Uc Nominal switching current Ic Relays type (status a/b programmable) Terminal size | 1 to 6 / 1 to 4 (bistable) |
| | 250V, 50Hz or 60Hz |
| | 25A / 40A at cos phi = 0,4 1 |
| | 25A change over contacts / 40A normally open floating contacts |
| | for 2 x 2,5 mm ² or 1 x 4 mm ² / 1 x 6 mm ² |
| Operating temperature | -20+60°C |
| Storage temperature | -30+60°C |
| Protection class | According to DIN 43861 part 2 (for installation on a meter panel or via terminal adapter to a meter). The receiver is also designed to be mounted on a DIN - rail. IP53 |
| | H = 175 mm, W = 107 mm, D = 80 mm |
| | Audio frequency Selection of audio frequency Minimum respond signal voltage None respond signal voltage Maximum signal level Supercap Battery Time deviation Number of Relays Nominal switching voltage Uc Nominal switching current Ic Relays type (status a/b programmable) Terminal size Operating temperature Storage temperature |

Connection diagramm



Elster GmbH

Steinern Straße 19-21 55252 Mainz-Kastel Germany Phone +49 (0) 6134 / 605-777

+49 (0) 6134 / 605-750 Fax

e-info@elster.com

www.elstersolutions.com / www.elster.com